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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,232	04/15/2002	James Frederick Morris	HODG-101 451145-0002	6321
7590 02/09/2005		EXAMINER		
R Thomas Payne			PREVIL, DANIEL	
Cummings & Lo	ockwood			
PO Box 1960			ART UNIT	PAPER NUMBER
New Haven, CT 06509-1960			2636	

DATE MAILED: 02/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

1)⊠ Responsive to communication(s) filed on 20 September 2004. 2a)⊠ This action is FINAL. 2b)□ This action is non-final. 3)□ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)⊠ Claim(s) 1-6 and 10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5)□ Claim(s) 1-6 and 10 is/are rejected. 7)□ Claim(s) is/are allowed. 6)☒ Claim(s) 1-6 and 10 is/are rejected. 7)□ Claim(s) is/are objected to. 8]□ Claim(s) are subject to restriction and/or election requirement. Application Papers 9)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12)☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☑ All b)□ Some * c)□ None of: 1.☑ Certified copies of the priority documents have been received. 2.□ Certified copies of the priority documents have been received in Application No 3.□ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Attachment(e) 1) ☑ Notice of Braftsprason's Patent Drawing Review (PTO-948) 3)□ Information Disclosure Statement(s) (PTO-1449 or PTO/SB00) 4)□ Information Patent Application (PTO-152)		Application No.	Applicant(s)				
Daniel Previl	Office Action Commence	10/009,232	MORRIS, JAMES FREDERICK				
The MALLING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extractions of term gay to sevalable under the provision of 37 CFR 1.13(d), his no event, however, may a reply be timely find Extractions of term gay to sevalable under the provision of 37 CFR 1.13(d), his no event, however, may a reply be timely find 1 the period for reply appelled above is less than they (00) days, a reply whin the station year in the mailing date of this communication of the period for reply appelled above, he machine undertaking period will pay and will agrice \$K\$ (6) MONTHS from the mailing date of this communication, even if timely filed, may reduce any extended patent term adjustment. See 37 CFR 1.704(b). Status 1)② Responsive to communication(s) filed on 20 September 2004. 2a)② This action is FINAL. 2b) ☐ This action is non-final. 3)② Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4)② Claim(s) 1-6 and 10 is/are pending in the application. 4)② Claim(s) 1-6 and 10 is/are objected to. 5)□ Claim(s) is/are allowed. 5)□ Claim(s) is/are objected to by the Examiner. 9)□ The specification is objected to by the Examiner. 10)□ The drawing(s) filed on is/are: a)□ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheel(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.85(a). Replacement drawing sheel(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11)□ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C.	Office Action Summary	Examiner	Art Unit				
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DETAILED ACTION

This action is responsive to communication filed on September 20, 2004.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6, 10, are rejected under 35 U.S.C. 103(a) as being unpatentable over Gemmer (4,941,770) in view of Gebert et al. (US 5,008,666).

Regarding claim 1, Gemmer discloses an electromagnetic traffic measurement which includes one or more electromagnetic induction loops (determine traffic density embedding copper wires as induction loops) (abstract) comprising: a pre-formed insulated electrically conducting material in one or a plurality of interconnected loops of a predetermined configuration (induction loop 10 is placed on the road surface 11 for each lane 4-9, each induction loop is sealed with a protective covering 14) (fig. 1; col. 4, lines 14-18 and lines 30-35); encapsulated in an outer layer (covering layer 14; conductor layer 15) adapted for adhesion to a road as a complete composite loop configuration prior to application of a covering surface layer to the road (conductor layer 15 is subsequently sealed with a plastic material as protective covering 14) (fig. 3; col. 4, lines 47-50); wherein the outer layer (conductor 15) (fig. 3-fig. 4); an overlying adhesion bandage for securing the encapsulated loop to the underlying

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pavement base (carrier layer 13 is secured the encapsulated loop 10 to the underlying pavement base) (fig. 3; col. 4, lines 30-52).

Gemmer discloses all the limitations above but fails to explicitly disclose a bitumen impregnated geotextile base bandage adapted to support one or a plurality of insulated electrically conducting wires or cables; an upper encapsulation tape.

However, Gebert discloses a bitumen (exposy bitumen) (col. 6, line 22) impregnated geotextile base bandage adapted to support one or a plurality of insulated electrically conducting wires or cables (cables 4) (fig. 1; fig. 3, fig. 5; col.; 6, lines 10-28); an upper encapsulation tape (a covering plate may be provided on the top surface) (fig. 1, fig. 5; col. 9, lines 7-16; col. 8, lines 48-66).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Gebert in Gemmer. Doing so would easily installed the encapsulation tape on top of the loop to secure efficiently the assembly to preclude damage to the loop wherein users can acquire peace of mind when using this system because not only it is a weather resistant but also a cross-wise sensitivity and a good general signal to noise ratio as taught by Gebert (col. 2, lines 60-64)

Regarding claim 2, Gemmer discloses an electromagnetic traffic measurement operatively connected to traffic monitoring or to traffic control or regulating means (col. 1, lines 14-30).

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Regarding claim 3, Gemmer discloses an electromagnetic traffic measurement operatively connected to traffic signals or to a gate control (col. 1, lines 14-18).

Regarding claim 4, Gemmer discloses an electromagnetic traffic measurement wherein the pre-formed composite loop is provided in ready-to-use form for attachment to a road pavement base (fig. 3; col. 4, lines 14-23).

Regarding claim 5, Gemmer discloses an electromagnetic traffic measurement wherein a pre-formed encapsulated electromagnetic induction loop is attached to a road in a predetermined configuration, the loop is operatively connected to traffic control or regulating means and a surface layer of asphalt or other pavement surfacing material is applied to the road or pavement base to cover and seal the loop within the road the road or pavement (fig. 3, col. 47-68).

Regarding claim 6, Gemmer discloses the encapsulated electromagnetic induction loop is attached to the top layer of reinforcing steel mesh in the road pavement base before being overlaid with asphalt or other pavement surfacing material (loop 10 is attached to the top layer 15) (fig. 3; col. 4, lines 47-68).

Regarding claim 10, Gemmer discloses an electromagnetic traffic measurement operatively connected to traffic signals or to a gate control (col. 1, lines 14-18).

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Response to Arguments

3. Applicant's arguments filed on September 20, 2004 have been fully considered but they are not persuasive.

According to Applicant's argument regarding "the outer layer". The examiner respectfully disagrees with the Applicant because Gemmer discloses an outer layer which is a covering layer 14 or a conductor layer 15 (abstract).

According to Applicant's argument regarding "one or a plurality of insulated electrically conducted wires or cables and the bitumen impregnated geotextile based bandage". Gebert discloses a cable 14 is laid in an epoxy bitumen (col. 6, lines 10-27).

Applicant is arguing about "the upper encapsulation tape". Gebert discloses this limitation as a covering plate on the top surface (col. 9, lines 15-16).

For at least the above reasons, the rejection of claims 1-6, 10 is sustained.

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Dahlin et al. (US 6,468,678) discloses conformable magnetic articles.

Ceseri (US 4,023,017) discloses an electronic traffic control system.

Edwards (US 4,428,990) discloses a traffic accessory.

Inose et al. (US 3,660,812) discloses a road traffic control system.

Raswant (US 5,330,278) discloses a coordinated traffic signal system for roads.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel Previl whose telephone number is (571) 272-2971. The examiner can normally be reached on Monday-Thursday. The examiner can also be reached on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Hofsass can be reached on (571) 272-2981. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Previl Examiner Art Unit 2636

DP January 26, 2005.

> JEFRERY HOFSASS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600